

SIEMENS

SG - Station

AX

Planning Guide

© Siemens AG 1996

The reproduction, transmission or use of this document or its contents is not permitted without express written authority. Offenders will be liable for damages. All rights, including rights created by patent grant or registration of a utility model or design, are reserved.

English

Doc. Gen. Date: 12.97

Print No.: RX53-020.021.01.05.02

Replaces: RX53-020.021.01.04.02


Chapter	Page	Revision
0	1 to 4	05
1	1 to 2	05
2	1 to 10	05
3	1 to 2	05
4	1 to 2	01
5	1 to 2	05
6	1 to 2	01
7	1 to 2	01
8	1 to 2	05


	Page
1 General Notes	1 - 1
General notes	1 - 1
Safety	1 - 2
2 Room Planning	2 - 1
Room planning example.	2 - 1
44 - cm SIMOMED monitor	2 - 2
54 - cm SIMOMED monitor	2 - 3
44 - cm SIEMENS monitor	2 - 4
Wall console for 44 - cm and 54 - cm monitor	2 - 5
Dimensions of RX monitor carriage	2 - 6
MTS - I 1.	2 - 7
MTS - I 2.	2 - 8
MTS - I 1 with control display	2 - 9
MTS - I 2 with control display	2 - 10
3 Preparation for Installation	3 - 1
Installation notes for MTS - I	3 - 1
Requirements:	3 - 1
General:	3 - 1
Extraction forces:	3 - 1
Ceiling installation for MTS - I	3 - 2
4 System Connections	4 - 1
n.a.	4 - 1
n.a.	4 - 2
5 Technical Data	5 - 1
Elektrical data	5 - 1
Weights and heat dissipation	5 - 1
Environmental conditions	5 - 1
Surface color	5 - 1
6 Transportation Specifications	6 - 1
n.a.	6 - 1
n.a.	6 - 2
7 Project Management	7 - 1
Responsibility of the project manager towards the service contractor	7 - 1
Preparation for installation.	7 - 1
Installation Protocol	7 - 2

	Page
8 _____ Changes to Previous Version _____	8 - 1

General notes

- With distribution of these revision level, all preceding planning guides, Speed - Infos (PG's) and drafts lose their validity.
- All layouts issued by the Planning Departments must bear a note referring to the installation and delivery conditions of Siemens Medical Engineering Group. The installation and delivery conditions must be submitted with the layouts.
- Unless otherwise specified, all equipment dimensions indicated in the planning guides show a general tolerance in accordance with ISO 2768 - V.
- Unless otherwise specified, all structural dimensions indicated in the planning guides show a general tolerance in accordance with ISO 4172.
- Unless otherwise specified, all dimensions are indicated in "mm".

 - The symbol indicates a change (see revision status).

-  - Orientation points
Points specific to system components to which reference is made when positioning system components to each other or in the room.
The isocenter of a radiographic system is always illustrated as the orientation point.
- Fixpoints
Clearly marked points on system components, installation ceiling, walls or floor on which cable outlets are located.
Illustration in the drawings: circle with letter/number-combination.
The cable lengths establish the maximum fixpoint distances and thus the maximum distances between the individual system components.

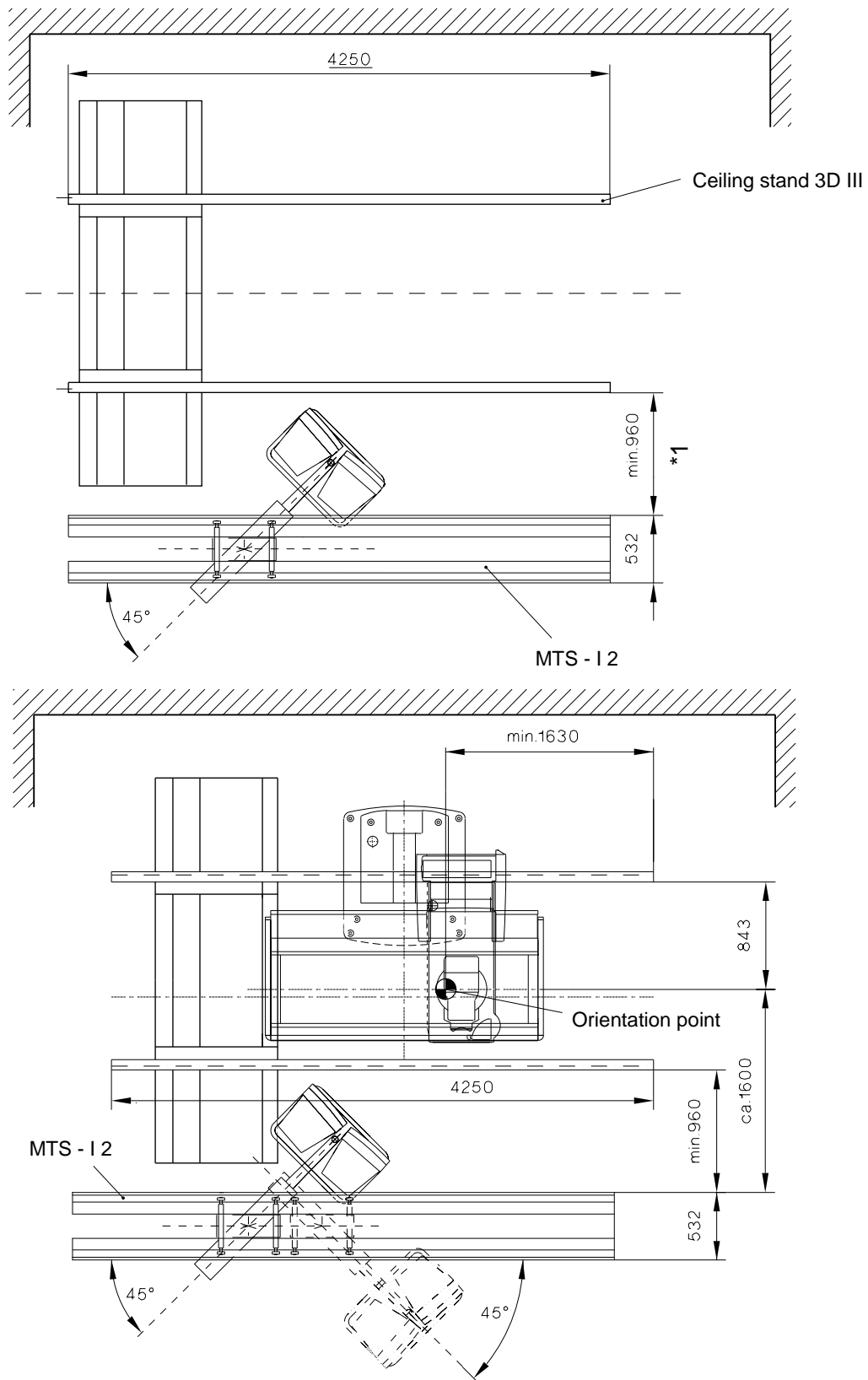
- Room height
The room height is the distance measured from the top surface of the floor to the bottom surface of the ceiling structural elements (Unistrut rails) (bottom surface of drop ceiling).

Mr. Löchel TD SD 31 Tel. 09191/18 - 8517
Mr. Bürkel TD PS 21 Tel. 09191/18 - 8543
Hotline + 49 (9191) 18 - 8080

Safety ♦

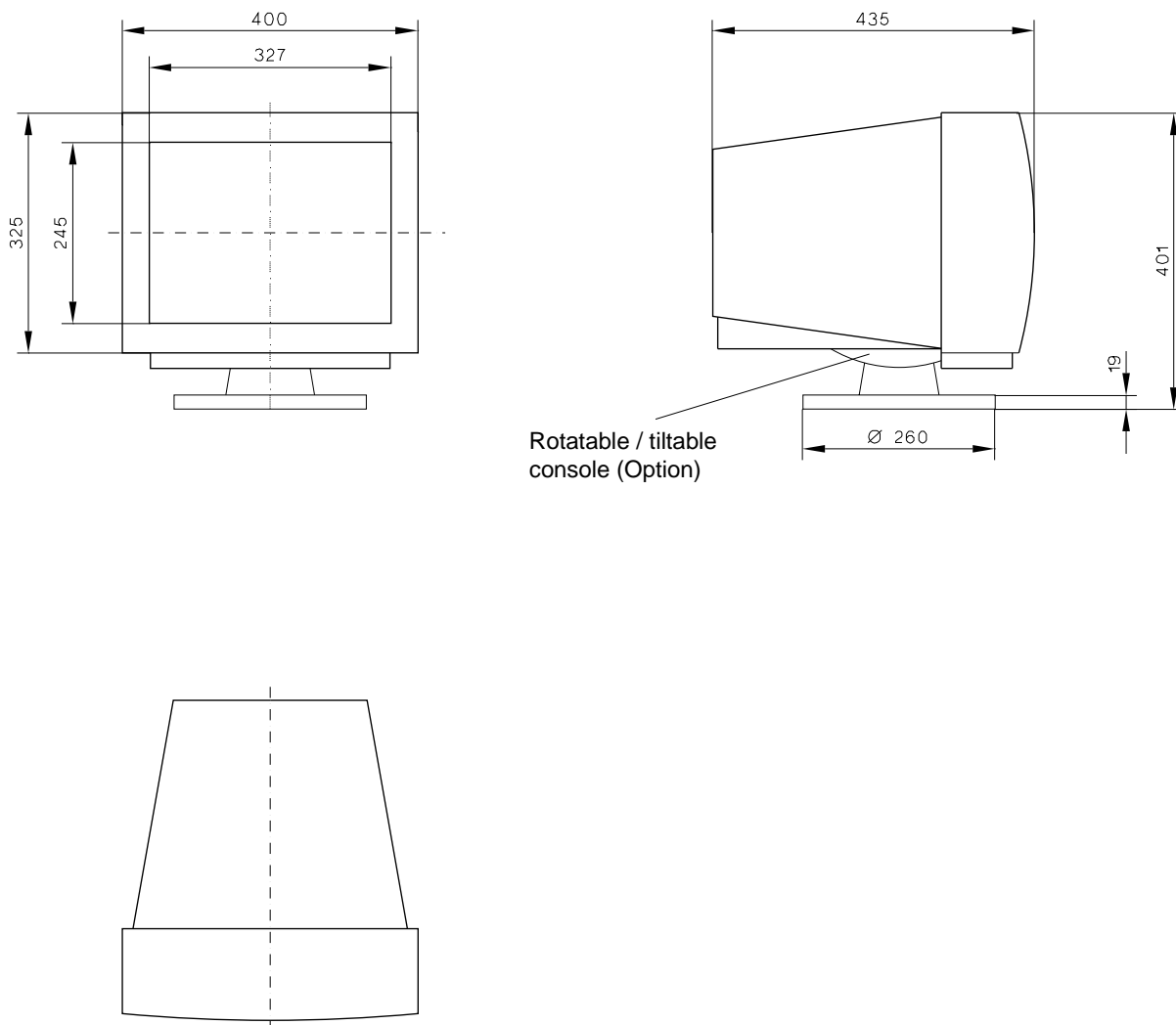
- The provisions of the relevant fire protection regulations must be observed for the premises.
- The system has been developed according to IEC 601 - 1 (corresponding to DIN DE 0750, Part 1, and EN 60601 - 1).
- Minimum dimensions (e. g. room heights, safety distances) indicated in the planning guides are marked "min."
- Basic strength against electromagnetic sources of interference.
Result of lightning discharges.
The protection targets of the different lightning protection areas up to the unit connection are also specified in the IEC 1024, DIN 48810, VDE 0675 and in the DEMVT recommendations.

Room planning example ♦



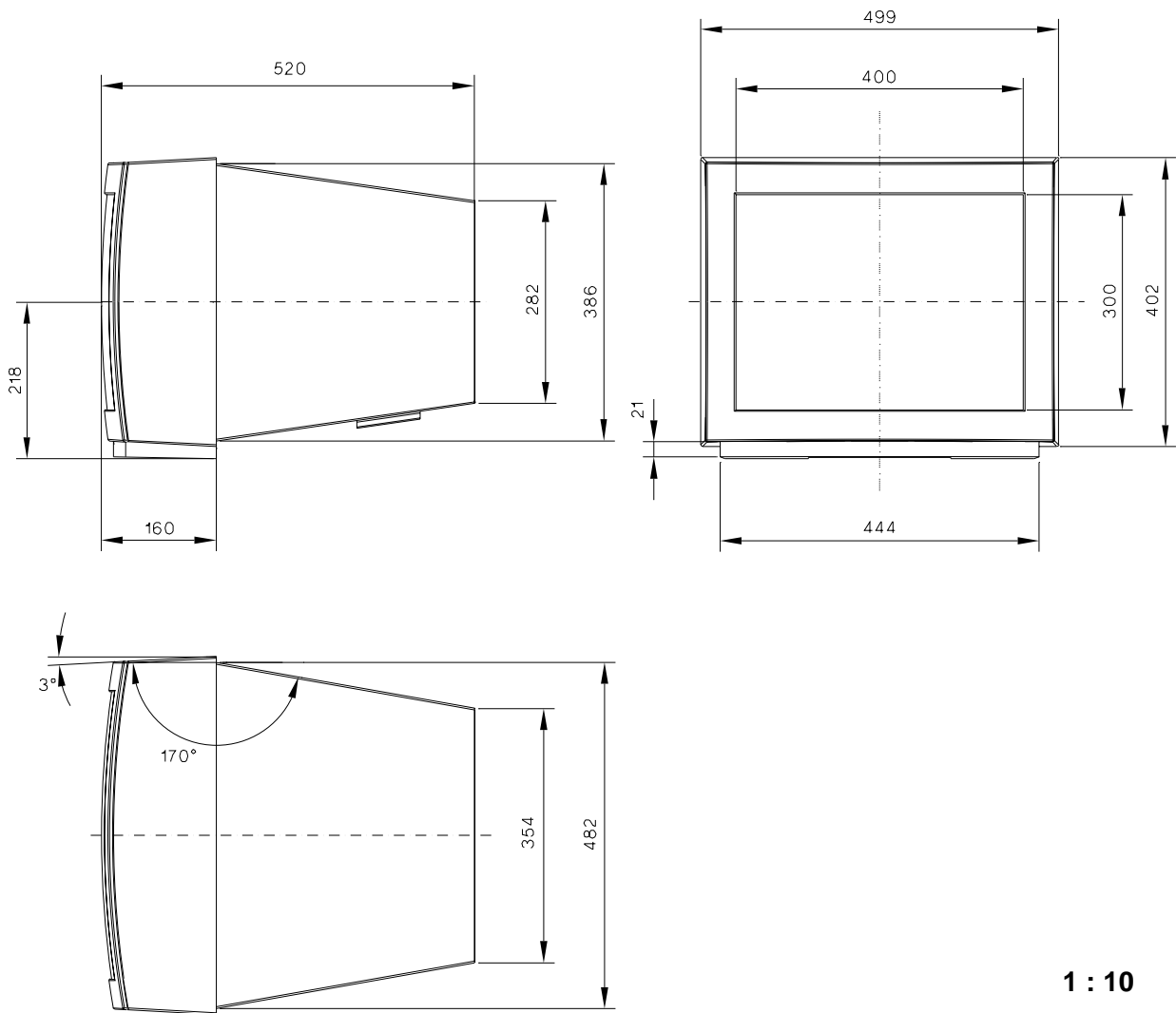
*1 Also applicable for 3D TOP

44 - cm SIMOMED monitor



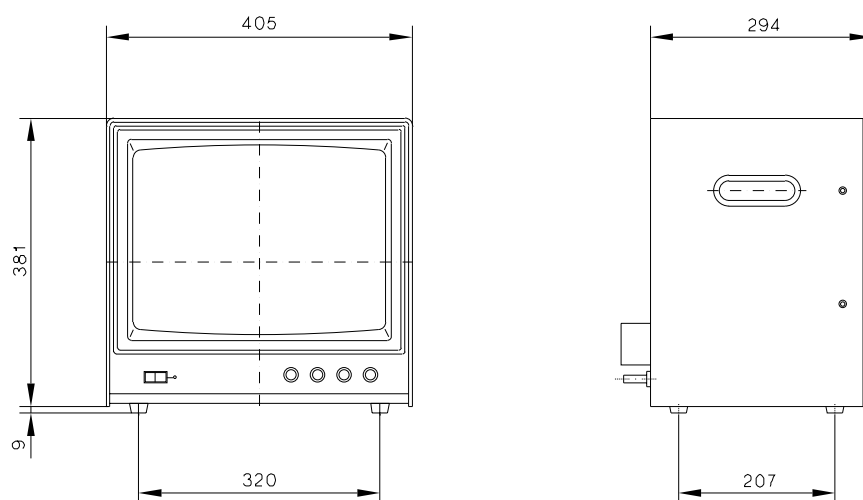
1 : 10

54 - cm SIMOMED monitor



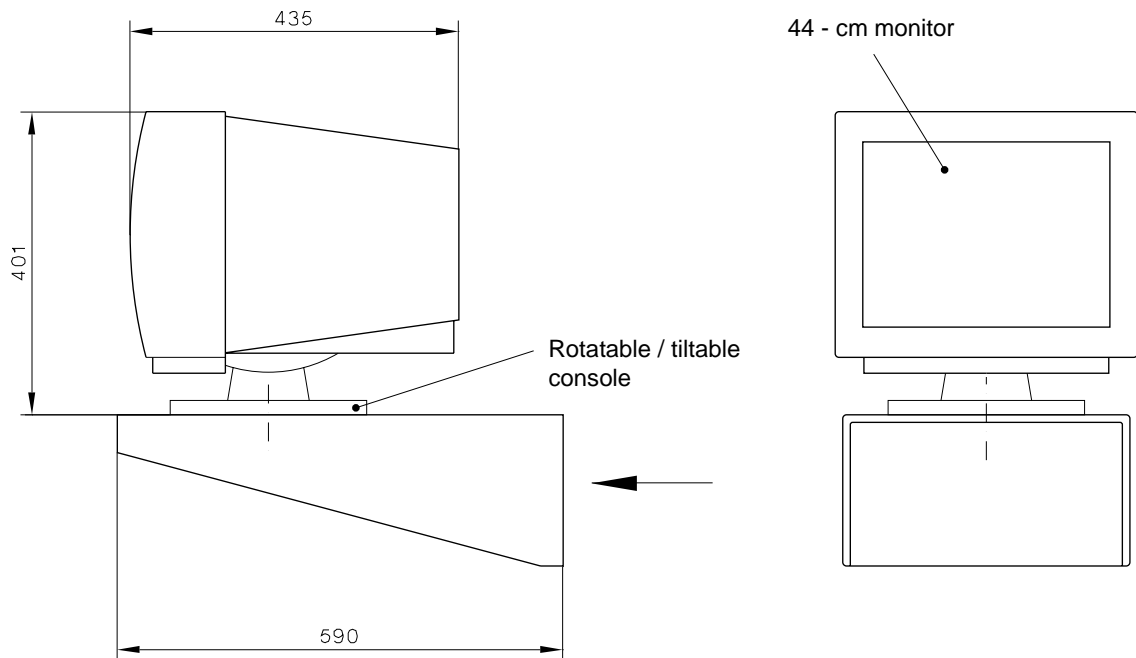
1 : 10

44 - cm SIEMENS monitor



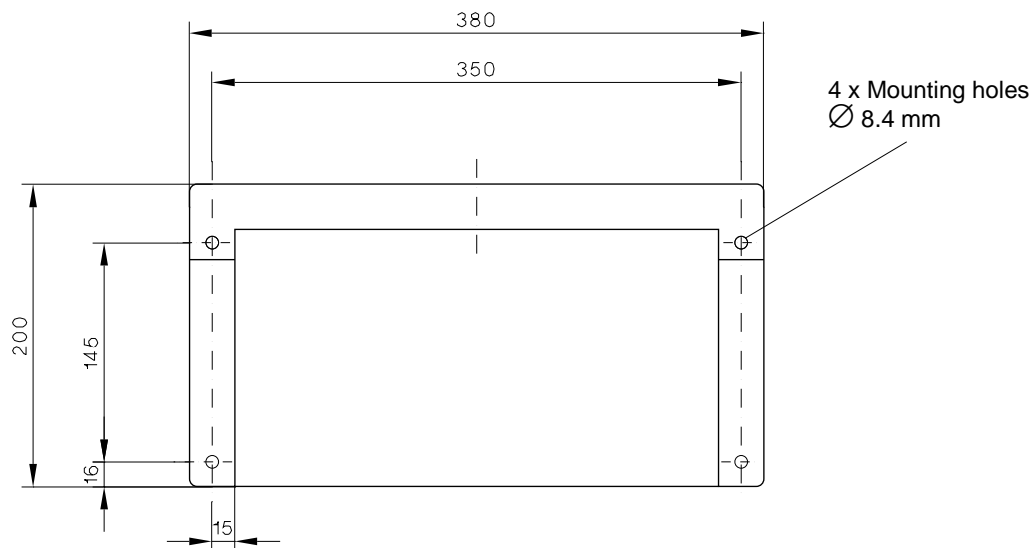
1 : 10

Wall console for 44 - cm and 54 - cm monitor



1 : 10

View X



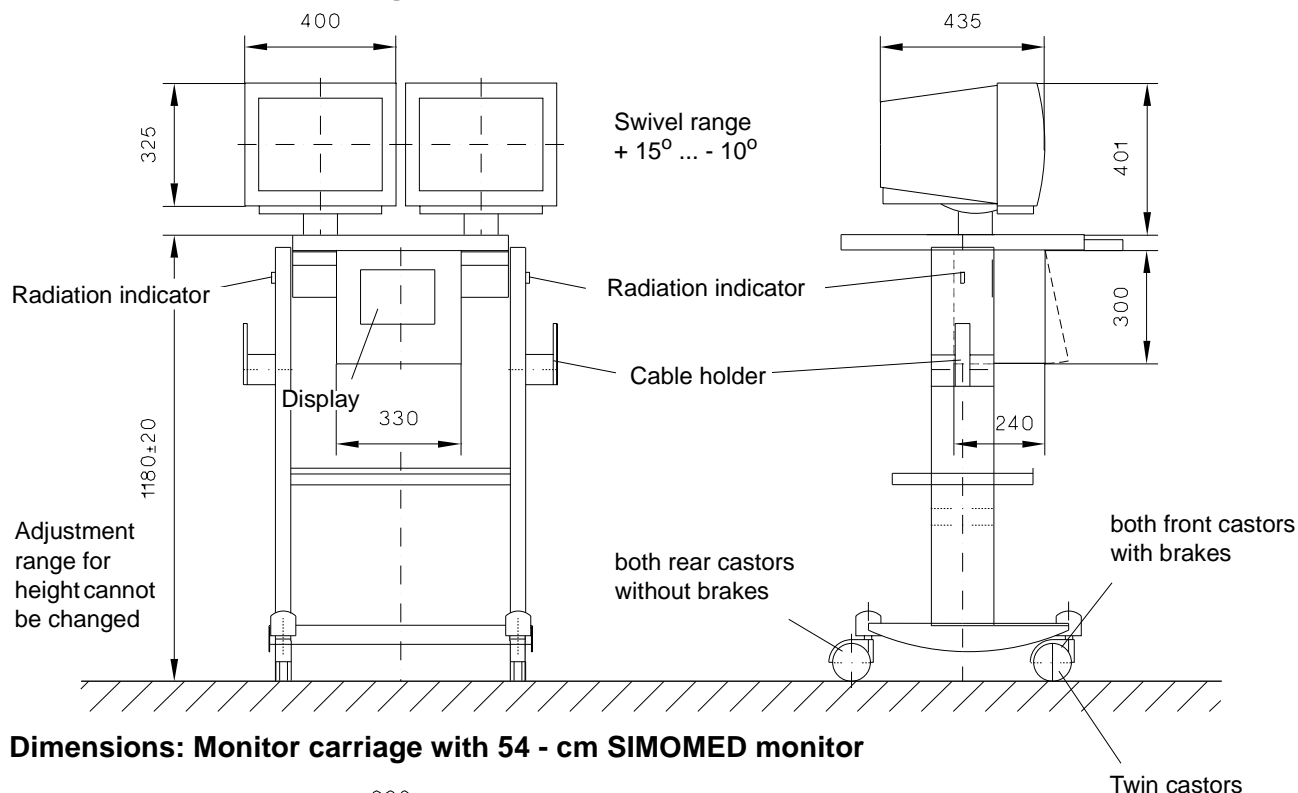
1 : 5

NOTICE

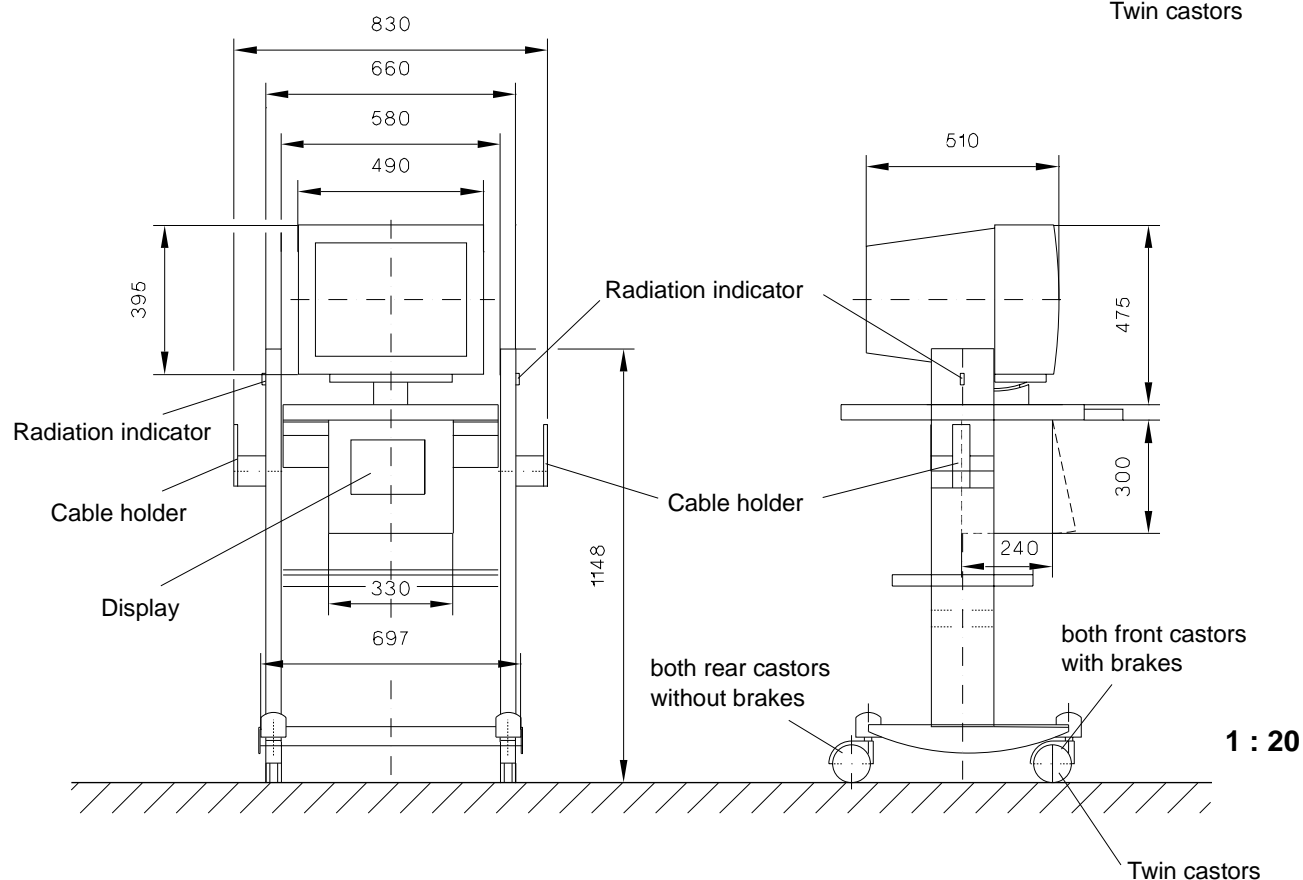
When the wall console is used, the monitor is always located on the swivel / tilt console. Fastening material is included in the delivery (5 wood screws 8 x 60 and S10 Fischer dowels).

Dimensions of RX monitor carriage

Dimensions: Monitor carriage with 44 - cm SIMOMED monitor



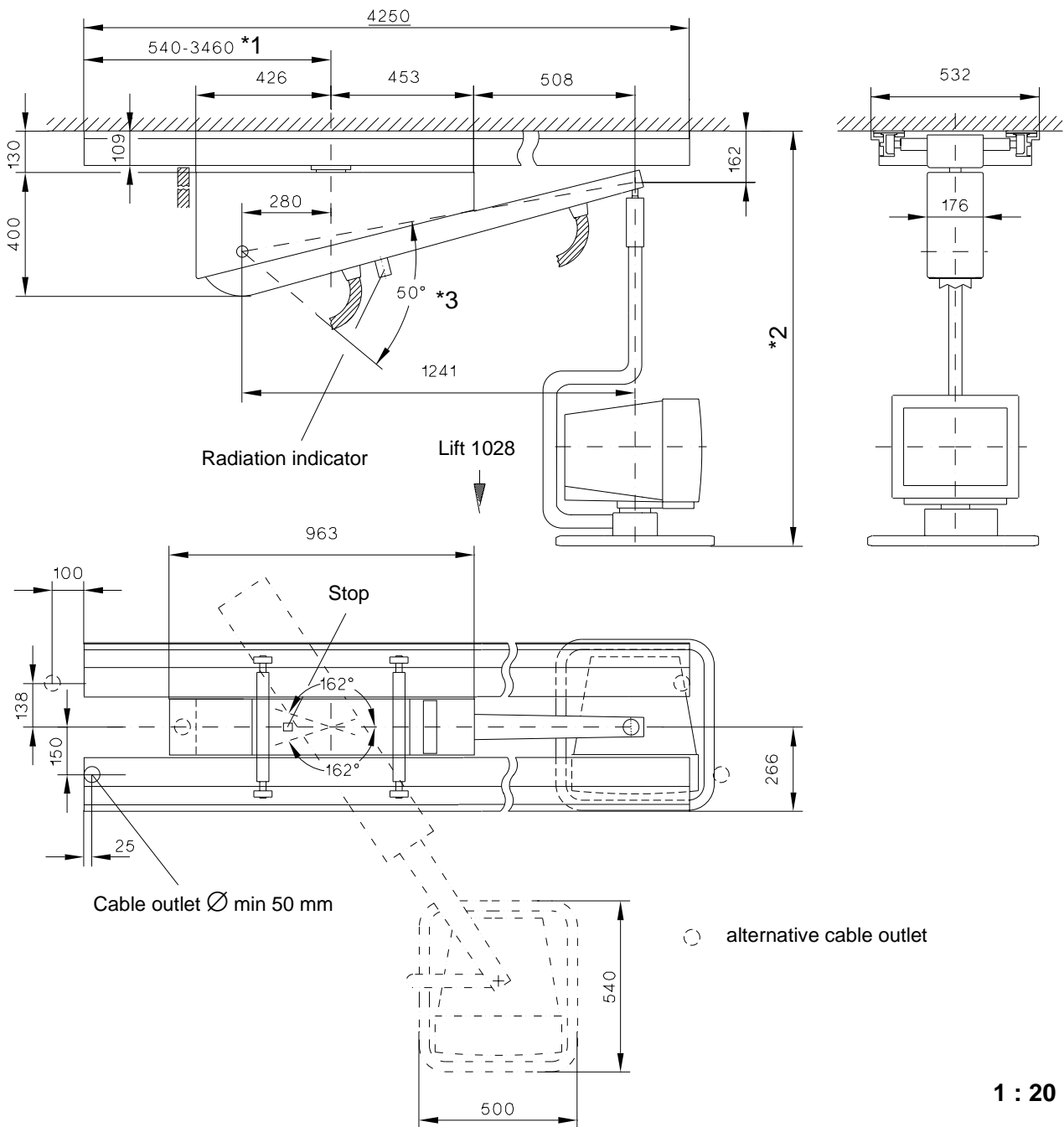
Dimensions: Monitor carriage with 54 - cm SIMOMED monitor



NOTICE

The control display is only supplied with the SIRESKOP SX system.

MTS - I 1

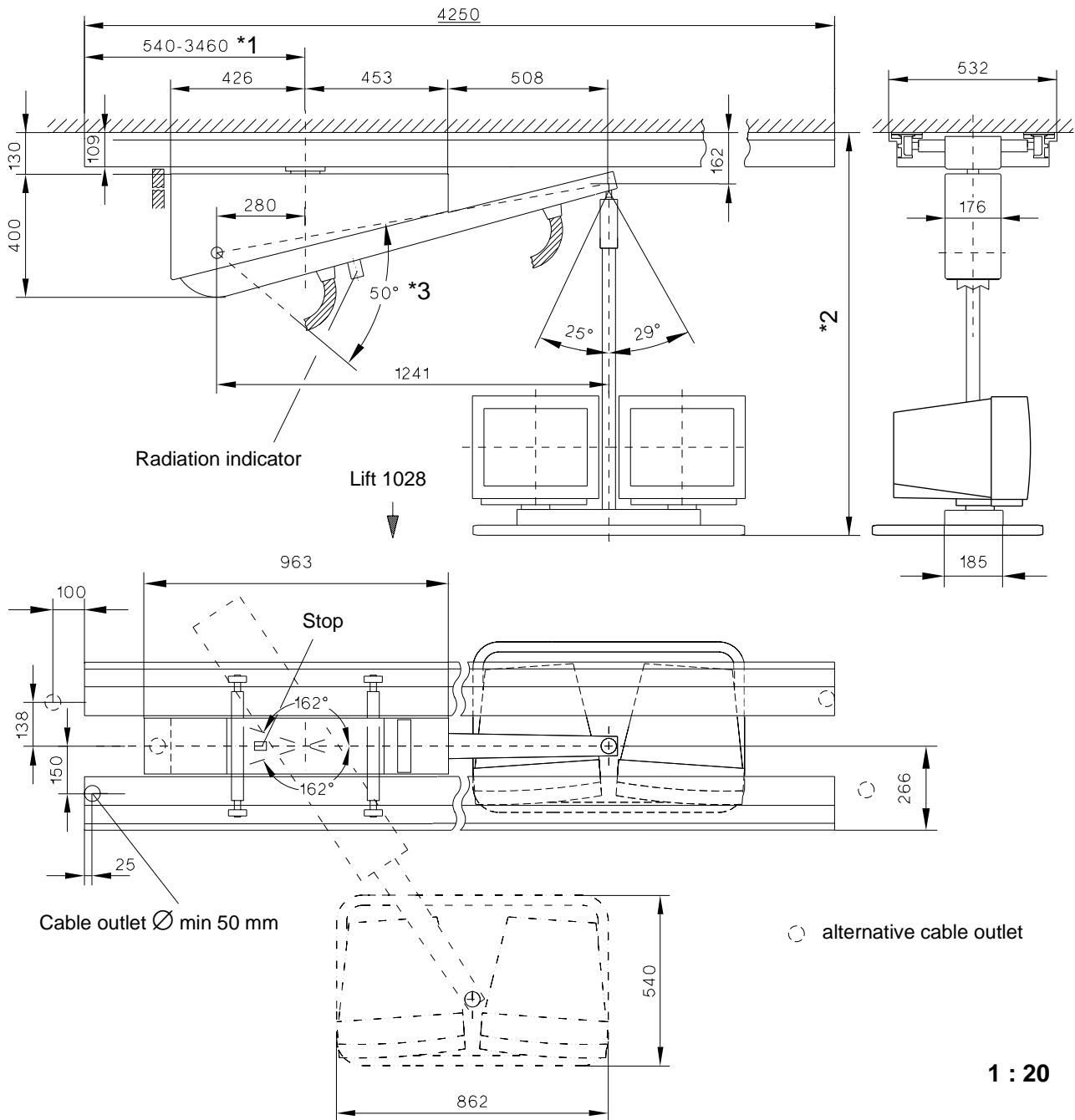


- *1 5000 mm longitudinal guide rails are used for the POLYSTAR; thus, a movement range of 3920 mm (540 - 4460) results.
- *2 The travel can be varied in 5 steps of 45 mm each from 1209 mm to 1389 mm.
- *3 Lift is 1028 mm at 50°.

CAUTION

If the stop / pivot range of the MTS - I must be on the other side, the cable outlet must also be moved.

MTS - I 2



*1 5000 mm longitudinal guide rails are used for the POLYSTAR; thus, a movement range of 3920 mm (540 - 4460) results.

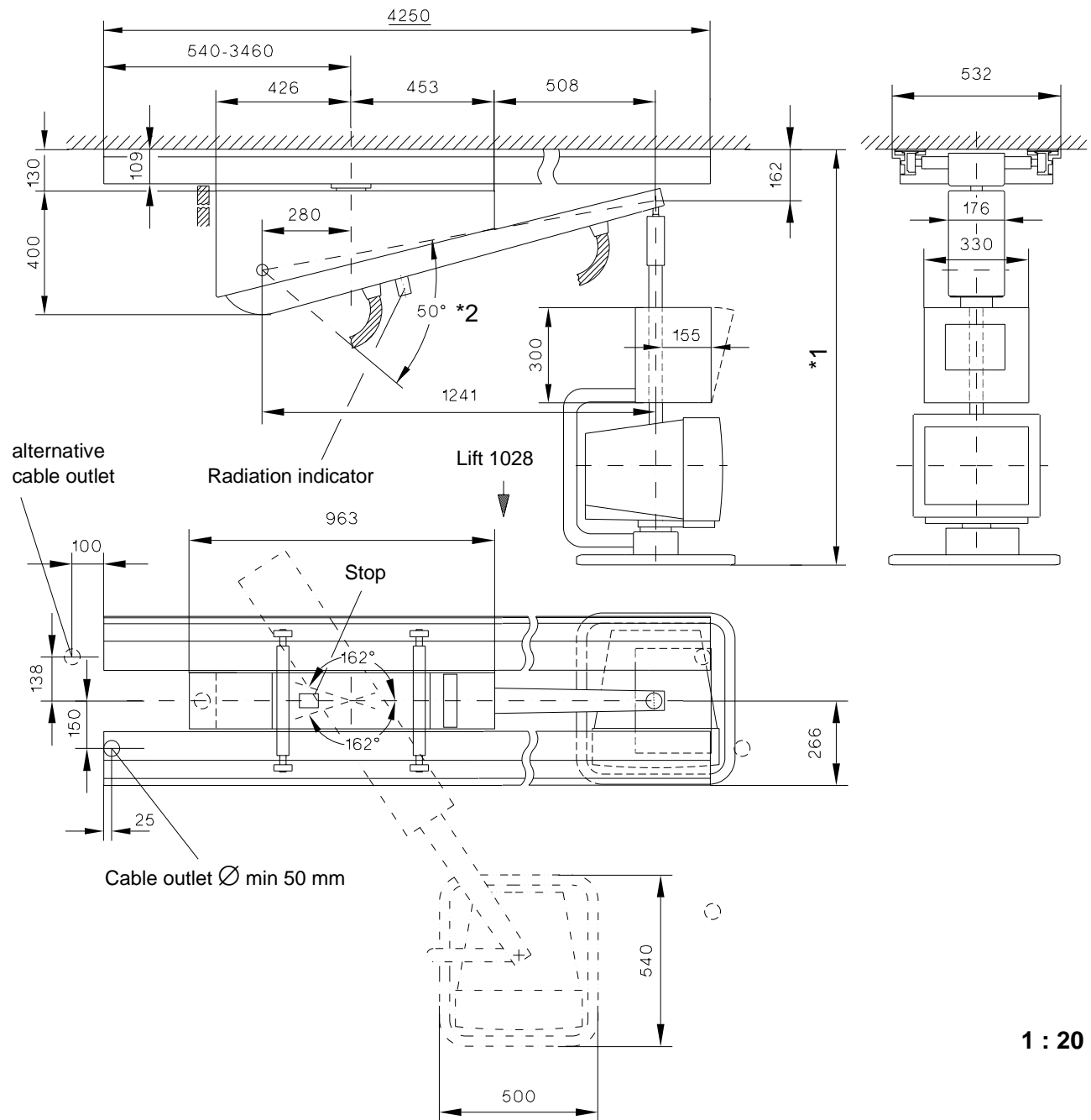
*2 The travel can be varied in 5 steps of 45 mm each from 1162 mm to 1342 mm.

*3 Lift is 1028 mm at 50°.

CAUTION

If the stop / pivot range of the MTS - I must be on the other side, the cable outlet must also be moved.

MTS - I 1 with control display



1 : 20

*1 The travel can be varied in 4 steps of 45 mm each from 1254 mm to 1389 mm.

*2 Lift is 1028 mm at 50° .

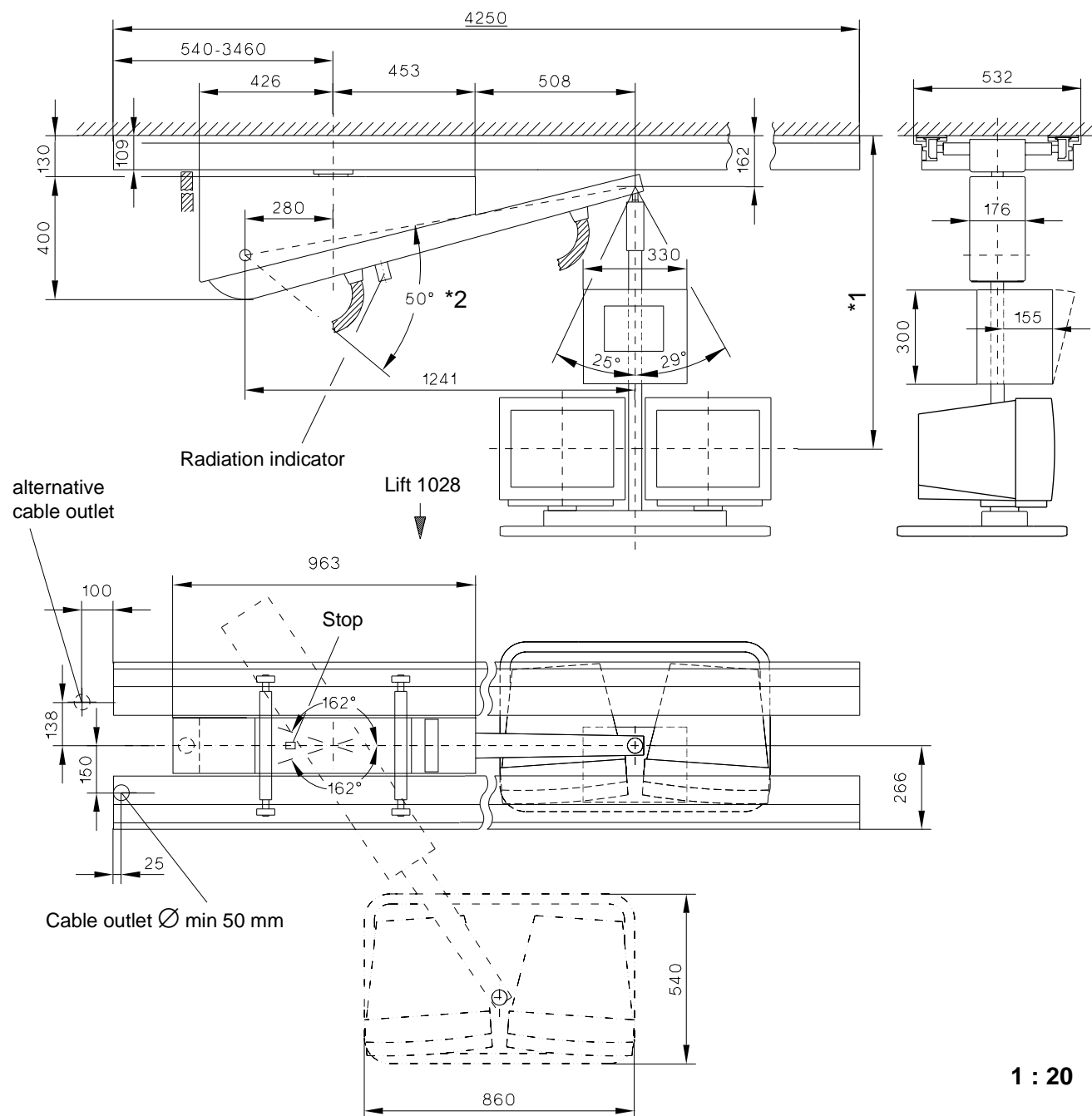
NOTICE

The control display is only supplied with the SIRESKOP SX system.

CAUTION

If the stop / pivot range of the MTS - I must be on the other side, the cable outlet must also be moved.

MTS - I 2 with control display



1 : 20

*1 The travel can be varied in 4 steps of 45 mm each from 1207 mm to 1342 mm.

*2 Lift is 1028 mm at 50°.

NOTICE

The control display is only supplied with the SIRESKOP SX system.

CAUTION

If the stop / pivot range of the MTS - I must be on the other side, the cable outlet must also be moved.

Installation notes for MTS - I

Requirements:

- A local substructure of Wieland -, Schwerter -, Unistrut or bearer sections.
- Mounting device, part No. 87 63 872 G 2122

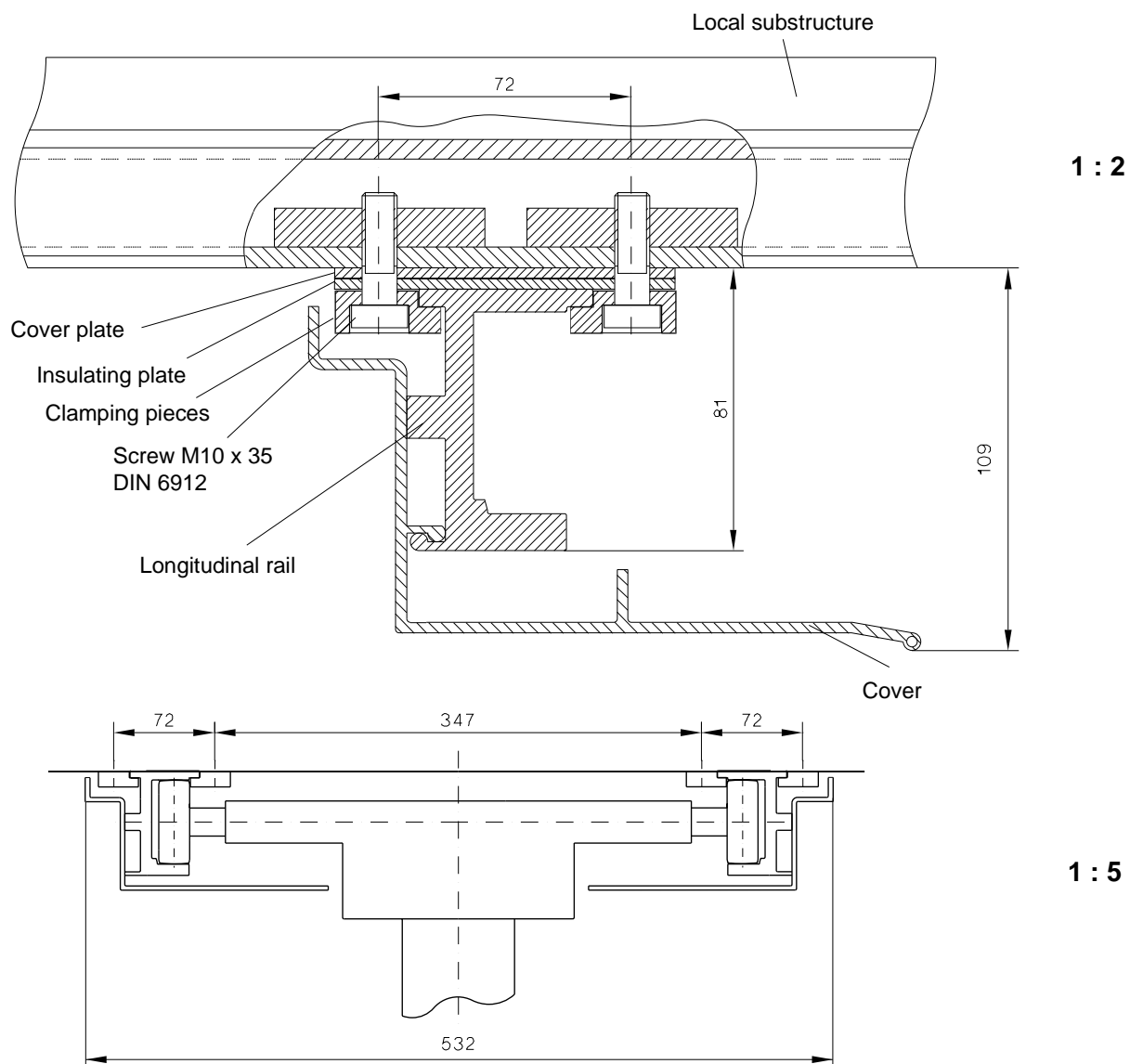
General:

- The spacing between fixing points should be max. 675 mm (7 fastening axes).
- ◆ - Screws (M10 x 35) and clamping pieces for 7 fastening axes are supplied.
- An average viewing level of 1500 - 1600 mm is recommended for the observer.
- The internal electrical wiring of the MTS - I and the unit tableside control is carried out in the factory. The MTS - I wires end at a plug-in point of terminal in the rails.

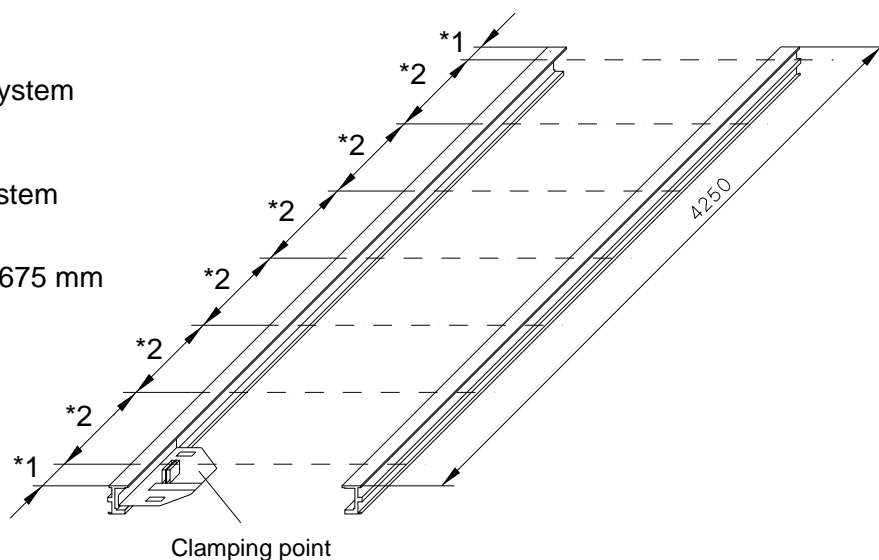
Extraction forces:

- Maximum static extraction force per screw 1010 N.

Ceiling installation for MTS - I ◆



- *1 Maximum rail overhang
100 mm for 4.25 m rail system
(7 mounting points).
Maximum rail overhang
137.5 mm for 5 m rail system
(8 mounting points).
- *2 Mounting distance max. 675 mm



n.a.

n.a.

Elektrical data

	Power supply	Input power	Internal fuse
44 - cm SIMOMED monitor	1/N/PE ~ 115/230V ± 10 % 50/60 Hz ± 1 Hz	0.7 A bei 230 V 1.3 A bei 115 V	1 x 2 A fast-blow
54 - cm SIMOMED monitor	1/N/PE ~ 115/230V ± 10 % 50/60 Hz ± 1 Hz	0.7 A bei 230 V 1.3 A bei 115 V	1 x 2 A fast-blow
44 - cm SIEMENS monitor	1/N/PE ~ 115/230V ± 10 % 50/60 Hz ± 1 Hz	0.27 A bei 230 V	1.25 A fast-blow

Weights and heat dissipation

	Weight [kg]	Heat dissipation [W]
44 - cm SIMOMED monitor	22	90
54 - cm SIMOMED monitor	30	90
54 - cm SIEMENS monitor	15	60
RX monitor carriage	72	—
MTS - I 1 *1	145 27	90
MTS - I 2 *1	145 27	180
1 pair of rail 4.25 m	27	—
Control display	16	—

*1 Total weight including longitudinal rails and ceiling carriage without monitor

Environmental conditions

SIMOMED monitor	Operation	Transport	Storage
Permissible ambient temperature	+10° ... + 35° C	- 25° ... + 70° C	- 25° ... + 70° C
Permissible relative air humidity	20 % ... 80 %	20 % ... 80 %	20 % ... 80 %
Permissible air pressure	700 hPa - 1060 hPa	400 hPa - 1060 hPa	400 hPa - 1060 hPa

Surface color

Main color	white mottled lacquer, Med surface No. 4146 similar RAL gray white 9002
Combination color	anthrazit mottled lacquer, Med surface No. 4076

This page intentionally left blank.

n.a.

n.a.

Responsibility of the project manager towards the service contractor

The scope of the project manager's responsibilities requires that he

- is at the installation site when the system arrives
- supports the service contractor in solving problems
- clarifies the final location of the individual components
- checks to ensure that the installation is proceeding as specified
- clarifies problems together with the service contractor prior to the delivery of the system, e. g.
 - establishes the transport route of the truck
 - establishes the transport route within the building

Preparation for installation

Activities that have to be completed before the system's arrival or installation

- Walls have been finished and painted
- The floor (possibly pre-installation plate) must be present and finished in the system room
- Ceilings are in place
- Room lighting has been installed and is ready for use
- All electrical installation has been completed
- None of the construction workers is still working in one of the rooms
- The rooms have been swept clean with a broom
- A room that can be locked is available as an intermediate storage area for the components

Installation Protocol

- This protocol has to be completed and signed by the installation team (service contractor, SIEMENS service engineer or project manager) and send back to TD PS 21 Siemens Forchheim.

NOTICE

The supervising SIEMENS project manager is responsible for the entire project management.

Furthermore, he is responsible for perfect and proper installation of the system.

Perform the further work according to the technical documentation (customer service instructions, installation instructions, etc.).

Chapter	Page	Change
0 - 8		Layout changes, thus a Rev. level change from 04 to 05
1	1-1 and 1-2	Text updated
2	2-1	Cable outlet removed for 3D III, *1 text added and illustration changed
2	2-7 to 2-10	Illustration changed and text expanded
3	3-1	Screw thread changed
3	3-2	Ceiling installation of the MTS - I, illustration changed
4		Chapter added (n.a.)
5	5-1	Technical data updated
6		Chapter added (n.a.)
7	7-1 and 7-2	Chapter added
8	8-1	Changes to Previous Version updated

This page intentionally left blank.